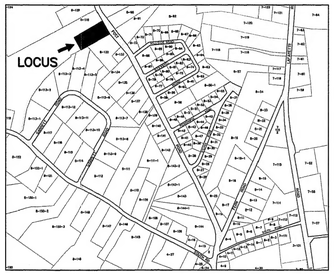
LOCUS MAP

NOT TO SCALE



140 CHATFIELD–HOLLIS–CANTON

SOIL CLASS: 38 ELDRIDGE

(SOURCE: USDA–SCS SOIL SURVEY)

BENCH MARKS: DATUM = ASSUMED

#1	SET NAIL PINE EL 45.43
#2	SET NAIL 14" MAPLE EL 52.51
#3	SET PK PAVED DRIVE EL 47.51

DESIGN INTENT:

1. THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT ELEVATION 49.3
2. THERE IS/ARE APPROX 1.7 FT BELOW ORIGINAL GROUND ON THE HIGH CONTOUR THE DESIGNED EDS. EL 51.0

SUITABLE REPLACEMENT AREA:

SYSTEM MUST BE REBUILT IN PLACE OR REDESIGNED.

LEGEND:

50 / (50)	EXISTING CONTOUR
	PROPOSED CONTOUR
50.0	EXISTING SPOT ELEVATION
(50.0)	PROPOSED SPOT ELEVATION

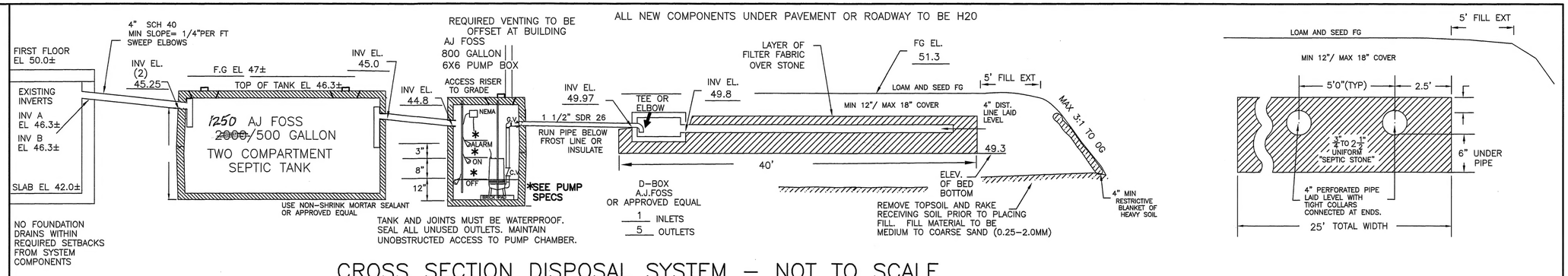
NOTES:

1. THIS PLAN IS NOT TO BE CONSTRUED AS A BOUNDARY SURVEY. PROPERTY LINES SHOWN ARE APPROXIMATED BASED ON INFORMATION FROM THE FOLLOWING SOURCE: RCRD 3945–2894
2. NHDES–WS&PCD SUBDIVISION APPROVAL NUMBER: N/A LOT OF RECORD PRE–1967
   SEE RCRD 1526–0432 (1959)
3. THIS SYSTEM IS NOT DESIGNED TO HANDLE GARBAGE DISPOSAL, JACUZZI BATH, OR SEWAGE EJECTOR PUMP WASTE. BACKWASH FROM WATER SOFTENER SYSTEMS SHOULD BE DISCHARGED TO A SEPARATE DRYWELL.
4. NO SURFACE WATER, HYDRIC A OR B SOIL, OR WATER WELL WITHIN 75' OF PROPOSED SYSTEM.
5. DESIGNER MUST BE CONSULTED FOR ANY PROPOSED CHANGES OR ERRORS/DISCREPANCIES FOUND DURING SYSTEM INSTALLATION. (603 929–7404) INSTALLER IS RESPONSIBLE FOR ANY TOWN PERMITS OR INSPECTIONS REQUIRED FOR THIS INSTALLATION.

PUMP SPECIFICATIONS

HYDROMATIC SHEF 30M1 EFFLUENT PUMP
0.3 HP, 115 V, 1 1/2" DISCHARGE
WITH NEMA CONTROL PANEL AND HIGH WATER ALARM HOUSED IN BUILDING
FLOATS TO BE SET APPROXIMATELY AS SHOWN TO GENERATE APPROX 128 GAL CYCLE
FOR 5± CYCLES PER DAY BASED ON 675 GPD DESIGN LOADING FOR EXISTING USE.
PUMP WILL DELIVER APPROX 20 GPM AT 18' ESTIMATED TDH FOR 6 1/2 MINUTES PUMP RUNNING TIME.

ELECTRICAL CONTROLS MUST BE APPROVED BY PUMP MANUFACTURER.



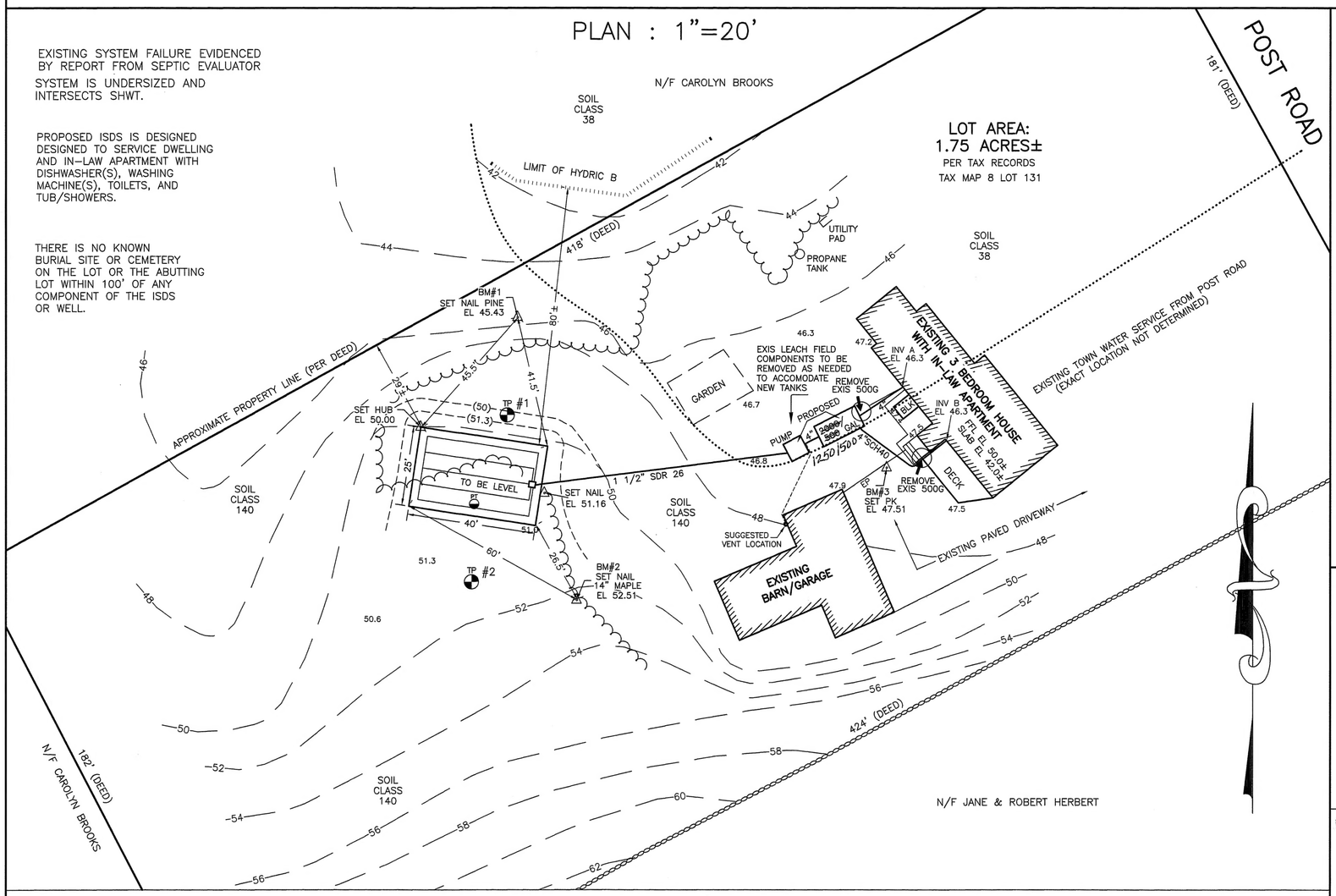
CROSS SECTION DISPOSAL SYSTEM – NOT TO SCALE

PLAN : 1"=20'

EXISTING SYSTEM FAILURE EVIDENCED BY REPORT FROM SEPTIC EVALUATOR
SYSTEM IS UNDERSIZED AND INTERSECTS SHWT.

PROPOSED ISDS IS DESIGNED DESIGNED TO SERVICE DWELLING AND IN–LAW APARTMENT WITH DISHWASHER(S), WASHING MACHINE(S), TOILETS, AND TUB/SHOWERS.

THERE IS NO KNOWN BURIAL SITE OR CEMETERY ON THE LOT OR THE ABUTTING LOT WITHIN 100' OF ANY COMPONENT OF THE ISDS OR WELL.



SYSTEM OWNER IS RESPONSIBLE FOR THE FOLLOWING OPERATING REQUIREMENTS

ENV–WS 1023.01 (a) SEPTIC TANKS SHALL BE INSPECTED FOR ACCUMULATION OF SLUDGE AND SURFACE SCUM AT LEAST ONCE EVERY YEAR. (b) WHEN THE COMBINED THICKNESS OF SLUDGE AND SURFACE SCUM EQUAL 1/3 OR MORE OF THE TANK DEPTH, THE TANK SHALL BE PUMPED BY A LICENSED SEPTIC TANK PUMPER.

ENV–WS 1023.02 TO PREVENT OBSTRUCTION OF THE DISTRIBUTION LINES AND LEACH FIELD, GREASE AND BULKY WASTE SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.

ENV–WS 1023.03 TOXIC AND HAZARDOUS MATERIALS SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.

ENV–WS 1023.04 TO PREVENT DAMAGE TO THE DISTRIBUTION LINES AND LEACH FIELD, VEHICLES, LIVESTOCK, AND OTHER HEAVY OBJECTS SHALL NOT BE ALLOWED ON THE LEACH FIELD.

ENV–WS 1023.05 IF WET AREAS APPEAR ON THE GROUND SURFACE ABOVE THE DISTRIBUTION LINES OR LEACH FIELD OR IF DISAGREEABLE ODORS OCCUR, THE SYSTEM SHALL BE INSPECTED FOR THE SOURCE OF THESE PROBLEMS, AND CORRECTIVE ACTION SHALL BE TAKEN.

TP TEST PIT DATA

DATE: APRIL 9, 2014

TOWN INSPECTOR: MIKE CUOMO

TEST PIT #1 EL 49.6

0 –29" FILL AND ORIGINAL TOPSOIL (TO BE REMOVED)
29–56" 10YR5/6 GRAVELLY FINE SANDY LOAM, GRANULAR FRIABLE
56–66" 2.5Y6/3 GRAVELLY LOAMY SAND, FRIABLE, MOTTLED

ESHWT @ 56", NO OBSERVED WATER , NO REFUSAL, ROOTS TO 4'+"

TEST PIT #2 EL 51.5

0 – 11" TOPSOIL (TO BE REMOVED)
11–26" 10YR5/6 GRAVELLY FINE SANDY LOAM, GRANULAR FRIABLE
26–72" 2.5Y6/4 GRAVELLY SAND, FRIABLE
72–90" 2.5Y6/4 FINE SAND, MOTTLED

ESHWT @ 72", NO OBSERVED WATER, NO REFUSAL, ROOTS TO 4'+

PT PERC TEST DATA

DESIGN PERC RATE: 5 MIN/IN AT 26" DEPTH

DESIGN LOADING: EXISTING 3 BEDROOM HOUSE (450 GPD)
WITH 1 BEDROOM IN–LAW APT (225 GPD)
TOTAL 675 GPD DESIGN LOADING

LEACH FIELD AREA REQUIRED: 148 SF / 100 GAL FOR 675 GPD LOADING = 999 SF LEACHING AREA REQUIRED

LEACH FIELD AREA PROPOSED: 25' X 40' = 1000 SF PROVIDED

PROPOSED REPLACEMENT

SEPTIC SYSTEM PLAN

EXISTING FAILED SYSTEM

LOCUS: 70 POST ROAD
NORTH HAMPTON, NH
TAX MAP 8 LOT 131

OWNER: KILLHEFFER ONE FAMILY TRUST
PETER H. & LYNNE H. KILLHEFFER TRUSTEES
70 POST ROAD
NORTH HAMPTON, NH 03862

NEW HAMPSHIRE Designer of Subsurface Disposal Systems Anne W. Bialobrzeski No. 348 Department of Environmental Services

APPLICANT:
STOCKTON SERVICES
PO BOX 1306
HAMPTON, NH 03842
603 929–7404

DATE: APRIL 12, 2014

APPROVAL: CAZD141170099
04/18/2014
TANK SIZE AMENDED 4/18/2014